```
FILE 'REGISTRY' ENTERED AT 17:10:57 ON 02 SEP 2008
               EXP ASPARAGINE/CN
             2 S E3
    FILE 'HCAPLUS' ENTERED AT 17:11:13 ON 02 SEP 2008
L2
         18606 S L1
L3
             1 S DISIALOUNDECA?
L4
        228020 S FATTY ACID
L5
             0 S L2 AND L3 AND L4
           253 S L2 AND L4
L6
L7
         48927 S SIAL?
L8
            1 S L6 AND L7
L9
         49425 S SIAL? OR DISIAL?
            1 S L2 AND L4 AND L9
L10
L11
           167 S L2 AND L9
L12
           134 S L11 AND (PY<2004 OR AY<2004 OR PRY<2004)
L13
        138568 S AMIDE
L14
             2 S L12 AND L13
    FILE 'HCAPLUS' ENTERED AT 17:29:03 ON 02 SEP 2008
L15
      4664798 S ACID
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L16 92 S L12 AND L15

FILE 'HCAPLUS' ENTERED AT 17:30:17 ON 02 SEP 2008
157350 S CAPRIC OR LAURIC OR MYRISTIC OR PALMITIC OR STEARIC OR ARACHI
L18 0 S L16 AND L17

FILE 'HCAPLUS' ENTERED AT 17:30:38 ON 02 SEP 2008 L19 0 S L12 AND L17 => file registry
COST IN U.S. DOLLARS SINCE FILE TOTAL
ENTRY SESSION
FULL ESTIMATED COST 0.21 0.21

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STRUCTURE FILE UPDATES: 1 SEP 2008 HIGHEST RN 1045602-82-1 DICTIONARY FILE UPDATES: 1 SEP 2008 HIGHEST RN 1045602-82-1

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http://www.cas.org/support/stngen/stndoc/properties.html

=>	exp	asparagine/	OU CONTRACTOR OF THE CONTRACTO
E1		1	ASPARAGINASE/GLUTAMINASE (SALINISPORA TROPICA STRAIN CNB-440
)/CN
E2		1	ASPARAGINASE/GLUTAMINASE (THIOMICROSPIRA CRUNOGENA STRAIN XC
			L-2)/CN
E3		2>	ASPARAGINE/CN
E4		1	ASPARAGINE (GLUTAMINE) SYNTHETASE/CN
E5		1	ASPARAGINE TRNA LIGASE (PLASMODIUM FALCIPARUM STRAIN 3D7
			GENE PFB0525W)/CN
E6		1	ASPARAGINE ACID/CN
E7		1	ASPARAGINE AMIDE/CN
E8		1	ASPARAGINE AMIDE HYDROBROMIDE/CN
E9		1	ASPARAGINE AMIDOHYDROLASE (DIROFILARIA IMMITIS CLONE L3MC4)/
			CN
E10		1	ASPARAGINE AMINOTRANSFERASE/CN
E11		1	ASPARAGINE ANHYDRIDE/CN
E12		1	ASPARAGINE BENZYL ESTER HYDROCHLORIDE/CN
=>	s e3	3	

=> S e3 L1 2 ASPARAGINE/CN

-> our cararadina/an

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substance identification.
=> s l1
        18606 L1
=> s disialoundeca?
            1 DISTALOUNDECA?
=> s fatty acid
       408232 FATTY
       4664798 ACID
       228020 FATTY ACID
L4
                 (FATTY(W)ACID)
=> s 12 and 13 and 14
            0 L2 AND L3 AND L4
=> s 12 and 14
          253 L2 AND L4
=> s sial?
L7
        48927 SIAL?
=> s 16 and 17
L.8
            1 L6 AND L7
=> d 18 ti absbib
'ABSBIB' IS NOT A VALID FORMAT FOR FILE 'HCAPLUS'
The following are valid formats:
ABS ----- GI and AB
ALL ----- BIB, AB, IND, RE
APPS ----- AI, PRAI
CLASS ----- IPC, NCL, ECLA, FTERM
DMAX ----- MAX, delimited for post-processing
FAM ----- AN, PI and PRAI in table, plus Patent Family data
```

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BIB ----- AN, plus Bibliographic Data and PI table (default)
CAN ----- List of CA abstract numbers without answer numbers
CBIB ----- AN, plus Compressed Bibliographic Data
DALL ----- ALL, delimited (end of each field identified)
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FBIB ----- AN, BIB, plus Patent FAM
IND ----- Indexing data
IPC ----- International Patent Classifications
MAX ----- ALL, plus Patent FAM, RE
PATS ----- PI, SO
SAM ----- CC, SX, TI, ST, IT
SCAN ----- CC, SX, TI, ST, IT (random display, no answer numbers;
             SCAN must be entered on the same line as the DISPLAY,
             e.g., D SCAN or DISPLAY SCAN)
STD ----- BIB, CLASS
IABS ----- ABS, indented with text labels
IALL ----- ALL, indented with text labels
IBIB ----- BIB, indented with text labels
IMAX ----- MAX, indented with text labels
ISTD ----- STD, indented with text labels
OBIB ----- AN, plus Bibliographic Data (original)
OIBIB ----- OBIB, indented with text labels
SBIB ----- BIB, no citations
SIBIB ----- IBIB, no citations
HIT ----- Fields containing hit terms
HITIND ----- IC, ICA, ICI, NCL, CC and index field (ST and IT)
             containing hit terms
HITRN ----- HIT RN and its text modification
HITSTR ----- HIT RN, its text modification, its CA index name, and
             its structure diagram
HITSEQ ----- HIT RN, its text modification, its CA index name, its
            structure diagram, plus NTE and SEQ fields
FHITSTR ---- First HIT RN, its text modification, its CA index name, and
            its structure diagram
FHITSEQ ---- First HIT RN, its text modification, its CA index name, its
             structure diagram, plus NTE and SEQ fields
KWIC ----- Hit term plus 20 words on either side
OCC ----- Number of occurrence of hit term and field in which it occurs
To display a particular field or fields, enter the display field
```

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All of the formats (except for SAM, SCAN, HIT, HITIND, HITRN, HITSTR, FHITSTR, HITSSD, FHITSD, KHIC, and OCC) may be used with DISPLAY ACC to view a specified Accession Number.

BUTER DISPLAY FORMAT (BIB) til abb bib

- L8 ANSWER 1 OF 1 HCAPLUS COPYRIGHT 2008 ACS on STN
- TI The glycan structure of albumin Redhill, a glycosylated variant of human serum albumin
- Although human serum albumin is synthesized without carbohydrate, glycosylated variants of the protein can be found. We have determined the structure of the glycan bound to the double-mutant albumin Redhill (-1 Arg, 320 Ala-Thr). The oligosaccharide was released from the protein using anhydrous hydrazine, and its structure was investigated using neuraminidase and a reagent array anal. method, which is based on the use of specific exoglycosidases. The glycan was shown to be a disialylated biantennary complex type oligosaccharide N-linked to 318 Asn. However, a

```
minor part (11 mol%) of the glycan was without sialic acid. The
    structure is principally the same as that of glycans bound to two other
    types of glycosylated albumin variants. Glycosylation can affect, for
     example, the fatty acid binding properties of albumin.
    Taking the present information into account, it is apparent that different
     effects on binding are caused not by different glycan structures but by
     different locations of attachment, with the possible addition of local
     conformational changes in the protein mol.
     2001:884107 HCAPLUS <<LOGINID::20080902>>
DN
    136:179567
    The glycan structure of albumin Redhill, a glycosylated variant of human
     serum albumin
     Kragh-Hansen, Ulrich; Donaldson, David; Jensen, Poul Henning
    Department of Medical Biochemistry, University of Aarhus, Aarhus, DK-8000,
    Den.
    Biochimica et Biophysica Acta, Protein Structure and Molecular Enzymology
     (2001), 1550(1), 20-26
     CODEN: BBAEDZ; ISSN: 0167-4838
    Elsevier B.V.
    Journal
   English
RE.CNT 23
              THERE ARE 23 CITED REFERENCES AVAILABLE FOR THIS RECORD
             ALL CITATIONS AVAILABLE IN THE RE FORMAT
=> d his
     (FILE 'HOME' ENTERED AT 17:10:48 ON 02 SEP 2008)
     FILE 'REGISTRY' ENTERED AT 17:10:57 ON 02 SEP 2008
               EXP ASPARAGINE/CN
              2 S E3
    FILE 'HCAPLUS' ENTERED AT 17:11:13 ON 02 SEP 2008
L2
         18606 S L1
L3
             1 S DISIALOUNDECA?
        228020 S FATTY ACID
L4
L5
             0 S L2 AND L3 AND L4
           253 S L2 AND L4
L7
         48927 S SIAL?
             1 S L6 AND L7
=> log hold
COST IN U.S. DOLLARS
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                                                                TOTAL
                                                     ENTRY
                                                              SESSION
FULL ESTIMATED COST
                                                       8.29
                                                                14.11
DISCOUNT AMOUNTS (FOR OUALIFYING ACCOUNTS)
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                                                              SESSION
                                                     ENTRY
CA SUBSCRIBER PRICE
                                                      -0.80
                                                                 -0.80
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SESSION WILL BE HELD FOR 120 MINUTES STN INTERNATIONAL SESSION SUSPENDED AT 17:12:14 ON 02 SEP 2008

Connecting via Winsock to STN

AN

ΤI

AU

CS

SO

PB

DT

LA

L6

L8

LOGINID: SSPTAEX01623

* * * * * * RECONNECTED TO STN INTERNATIONAL * * * * *

PASSWORD:

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SESSION RESUMED IN FILE 'HCAPLUS' AT 17:26:45 ON 02 SEP 2008
FILE 'HCAPLUS' ENTERED AT 17:26:45 ON 02 SEP 2008
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COST IN U.S. DOLLARS
                                                 SINCE FILE
                                                                TOTAL
                                                      ENTRY
                                                              SESSION
FULL ESTIMATED COST
                                                       8.29
                                                                 14.11
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)
                                                SINCE FILE
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                                                      ENTRY
                                                              SESSION
CA SUBSCRIBER PRICE
                                                       -0.80
                                                                 -0.80
=> s sial? or disial?
         48927 SIAL?
         1174 DISIAL?
1.9
         49425 SIAL? OR DISIAL?
=> s 12 and 14 and 19
            1 L2 AND L4 AND L9
T.10
=> s 12 and 19
          167 L2 AND L9
=> s 111 and (PY<2004 or AY<2004 or PRY<2004)
      24009542 PY<2004
       4785121 AY<2004
       4256259 PRY<2004
           134 L11 AND (PY<2004 OR AY<2004 OR PRY<2004)
=> s amide
L13
      138568 AMIDE
=> s 112 and 114
L14 NOT FOUND
The L-number entered could not be found. To see the definition
of L-numbers, enter DISPLAY HISTORY at an arrow prompt (=>).
=> s 112 and 113
T.14
            2 L12 AND L13
=> d 114 1-2 ti abs bib
L14 ANSWER 1 OF 2 HCAPLUS COPYRIGHT 2008 ACS on STN
     Characterization of N-linked oligosaccharides attached to recombinant
     human antithrombin expressed in the yeast Pichia pastoris
     We studied the structures of four N-linked oligosaccharide chains of the
     recombinant human antithrombin (rAT) expressed in the yeast Pichia
     pastoris. RAT was fully glycosylated at Asn 96 and Asn 155, whereas the
     glycosylation on Asn 135 and Asn 192 was partial. The glycosylation level
     on Asn 135 was only 12% and this reduction is assumed to be one of the reasons
     for a higher heparin-binding affinity of rAT than plasma-derived human
     antithrombin (pAT). In order to determine the sizes and electrostatic charges
     of the N-linked oligosaccharides, rAT was treated with PNGase F, and the
```

reduced ends were labeled by pyridylamination followed by anal. using anion exchange and amide adsorption columns. The N-linked oligosaccharides were 78% neutral and 22% phosphomannosylated. The neutral oligosaccharides were thought to be Man9-12GloNAc2 as their major

components. The phosphomannosylated oligosaccharides were then subjected to mild acid hydrolysis and/or digestion with alkaline phosphatase, and their charge shifts were analyzed by the affinity to an anion exchange column. Among phosphomannosylated oligosaccharides, monophosphate diester type was predominant, whereas neg. charged diphosphate diester and monophosphate monoester types were minor components. The mannose residues at the non-reducing end(s) of Man9-12GlcNAc2 were phosphomannosylated or phosphorylated and these are the major components. Because rAT is less neg, charged than pAT, which has disially biantennary N-glycans, it might be less repulsive to pentasaccharide-bearing anticoagulantly active heparan sulfate proteoglycan mols. exposed on the surface of the damaged vascular vessels.

2002:813772 HCAPLUS <<LOGINID::20080902>>

DN 138:51890

AN

ΤТ Characterization of N-linked oligosaccharides attached to recombinant human antithrombin expressed in the yeast Pichia pastoris

Hirose, Masaaki; Kameyama, Shoju; Ohi, Hideyuki ΑU

CS Protein Research Laboratory, Pharmaceutical Research Division, Mitsubishi Pharma Corporation, Osaka, 573-1153, Japan

SO Yeast (2002), 19(14), 1191-1202 CODEN: YESTE3; ISSN: 0749-503X

PB John Wilev & Sons Ltd.

Journal

LA English

RE.CNT 43 THERE ARE 43 CITED REFERENCES AVAILABLE FOR THIS RECORD ALL CITATIONS AVAILABLE IN THE RE FORMAT

L14 ANSWER 2 OF 2 HCAPLUS COPYRIGHT 2008 ACS on STN

- TI Olicosaccharide units of rabbit immunoglobulin G. Multiple carbohydrate attachment sites
- AB The carbohydrate structure of rabbit immunoglobulin G isolated from pooled serums was determined Amino sugar anal. of fragments of the mol. showed 3 oligosaccharides located at separate sites on the H-chain and the corresponding glycopeptides were isolated. The average composition of the C1-oligosaccharide, present on .apprx.15% of the H-chains, was 2 glucosamine, 2 mannose, and 1 galactose residues; the carbohydrate was coupled through the amide group of asparagine in a peptide containing asparagine, glycine, and threonine within the Fd fragment of the mol. The average composition of the C2-oligosaccharide, present on .apprx.40%

the H-chains, was 1 galactosamine, 1 galactose, and either 1 or 2 sialic acid residues; it was attached glycosidically to the OH group of threonine in a peptide Ser-Lys-Pro-Thr-Cys-Pro-Pro-Pro-Glu-Leu in the hinge region of the mol. The average composition of the

C3-oligosaccharide, present in all the H-chains, was 5 glucosamine, 2 galactose, 5 mannose, 1 fucose, and 1 sialic acid residue; it was linked through the amide group of asparagine in a peptide Gln-Gln-Phe-Asn-Ser-Thr-Ile-

Arg within the Fc fragment of the mol.

- AN 1972:459855 HCAPLUS <<LOGINID::20080902>>
- DN 77:59855

OREF 77:9913a,9916a

Oligosaccharide units of rabbit immunoglobulin G. Multiple carbohydrate attachment sites

Fanger, M. W.; Smyth, D. G.

Natl. Inst. Med. Res., London, UK

SO Biochemical Journal (1972), 127(5), 757-65 CODEN: BIJOAK; ISSN: 0264-6021

Journal

LA English => file stnguise
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=> file stnguide
COST IN U.S. DOLLARS

FULL ESTIMATED COST

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

ENTRY
ENTRY
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19.49
25.31

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

ENTRY
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-2.40

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=> s acid L15 4664798 ACID

=> s 112 and 115

L16 92 L12 AND L15

 => file stnguide
 SINCE FILE
 TOTAL

 COST IN U.S. DOLLARS
 ENTRY
 SESSION

 FULL ESTIMATED COST
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 28.06

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 SINCE FILE
 TOTAL

 ENTRY
 SESSION

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=> s capric or lauric or myristic or palmitic or stearic or arachic or behenic or

6255 CAPRIC 20076 LAURIC 16240 MYRISTIC 42544 PALMITIC 76090 STEARIC 547 ARACHIC 5138 BEHENIC

71101 OLEIC 157350 CAPRIC OR LAURIC OR MYRISTIC OR PALMITIC OR STEARIC OR ARACHIC L17 OR BEHENIC OR OLEIC

=> s 116 and 117

T.18 0 L16 AND L17

=> file stnguide

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=> file hcaplus COST IN U.S. DOLLARS

SINCE FILE TOTAL ENTRY SESSION FULL ESTIMATED COST 0.06 30.93 DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS) SINCE FILE TOTAL ENTRY SESSION CA SUBSCRIBER PRICE 0.00 -2.40

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=> s 112 and 117

L19 0 L12 AND L17